

ELEVATED ENDRING BIRDCAGE ANTENNA FOR MRI APPLICATIONS

Abstract

An imaging coil (12) includes multiple end rings (52). A center ring (53) extends parallel to and is coupled between the end rings (52). Multiple legs (86) are coupled between the end rings (52) and the center ring (53). The end rings (52) may have a first radius (R1) that is greater than a second radius (R2) of the center ring (53). The imaging coil (12) may include more than 16 legs. The imaging coil (12) may include multiple capacitor groupings (98) coupled along the end rings (52), each capacitor grouping (98) has multiple capacitors (102) with a coverage area width (W) greater than 5.0cm. The center ring (53) may be coupled to a ground reference (110) and has low impedance such that the center ring (53) is effectively shorted to the ground reference (110).